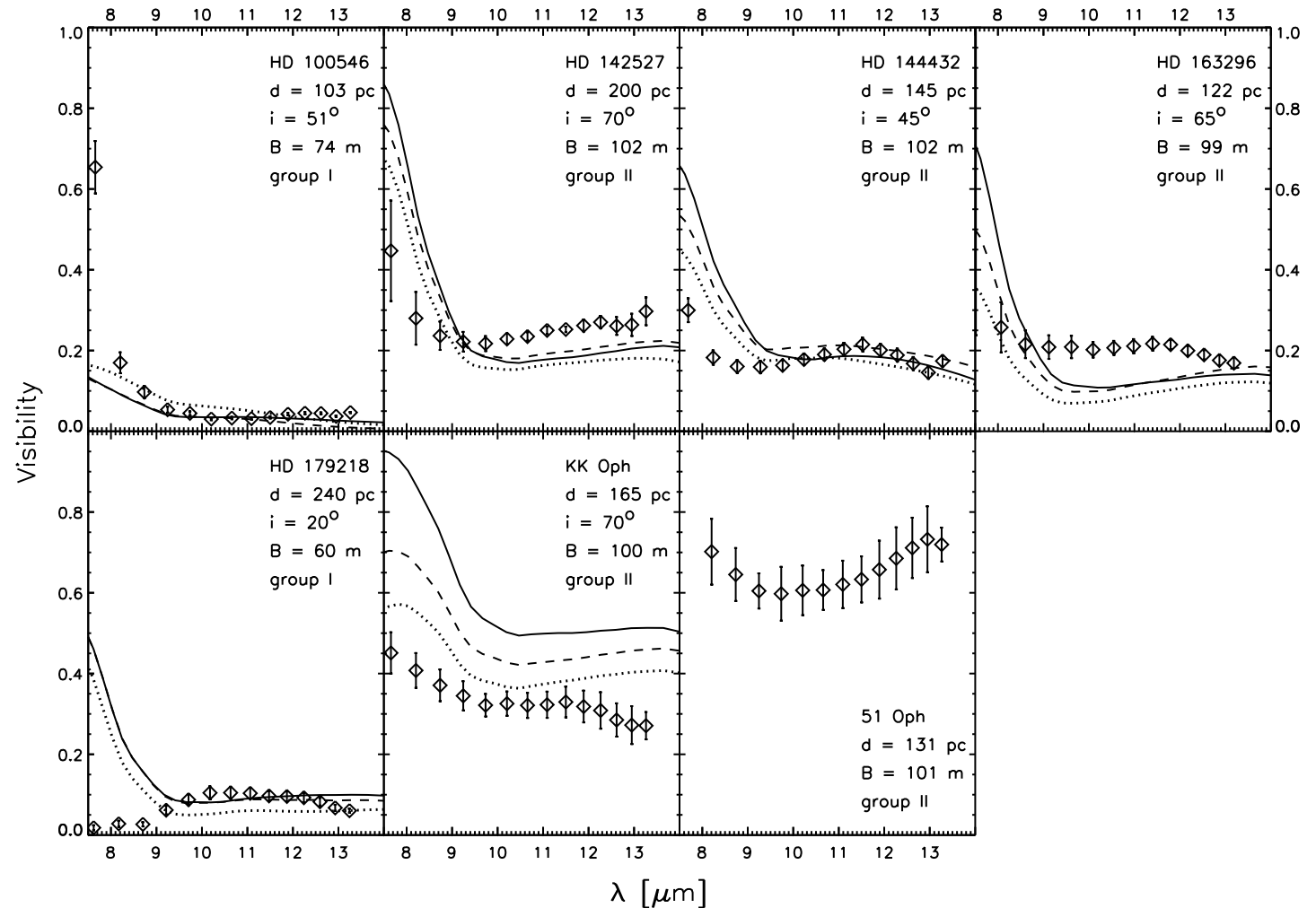


Mid-infrared sizes of disks around Herbig Ae stars

Ch. Leinert et al. 2004, A&A 423, 537

- N-band visibilities measured on VLTI on UT telescopes, instrument MIDI and baseline 100 m
- disks well resolved (visibility ≈ 0.2)
- disk models were fitted to SEDs
- these models, with puffed-up inner disk rim, appear reasonable, fit qualitatively the visibilities



measured visibility: diamonds
pole-on models: dotted
short-axis models: solid line
long-axis models: broken line

- evidence for the proposed grouping of disk models

- Hypothesis:

Group I sources

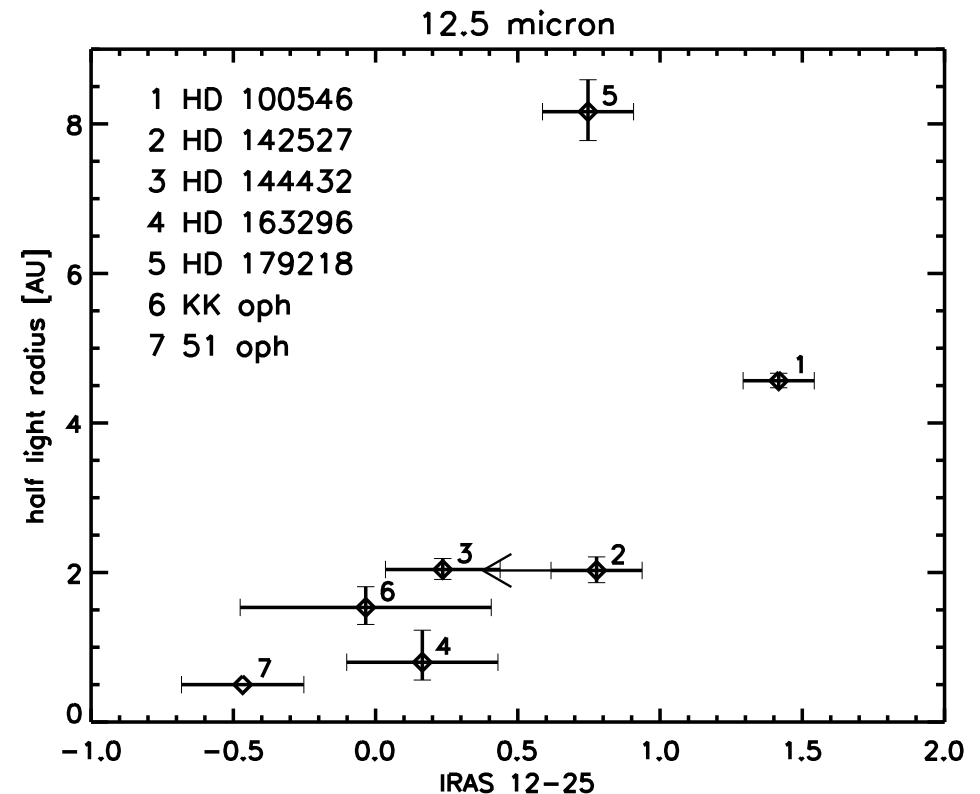
(FIR excess, probably
with strongly flared disks)

should appear larger than

Group II sources

(“self-shadowed” disks)

- such a relation between size
(half-light radius)
and far-infrared colour
(IRAS 12 μm - IRAS 25 μm)
shows in the MIDI data



– for the silicate features
observed in these objects
at our interferometric resolution ($\approx 1 AU$)
see van Boekel et al. 2004, Nature 432,479

